



Kontagk

**PROTECTIVE FABRICS
TECHNICAL SPECIFICATIONS
NOMEX® IIIA: PLAIN**

PHYSICAL PROPERTIES	Specifications	AVERAGE PERFORMANCE VALUES	NFPA 1975-04 Requirements	NFPA 2112-07 Requirements	ASTM F1506-02 NFPA 70E-09 Requirements
FIBER CONTENT AATCC 20A	93% NOMEX® 5% KEVLAR® 2% P-140	93% NOMEX® 5% KEVLAR® 2% P-140			
WIDTH (inches) Cuttable	60 min	60.8			
WEIGHT (oz/yd²) ASTM D3776	4.5±5%	4.5			
YARNS per INCH (warp x fill) Visual	57 x 43 min	62 x 44			
BREAKING STRENGTH (lbs, warp x fill) ASTM D5034	50 x 50 min	172 x 126			30 x 30 min
TEAR STRENGTH (lbs, warp x fill) ASTM D1424	5.0 x 5.0 min	10.4 x 8.0			2.5 x 2.5 min
DIMENSIONAL STABILITY (% warp x fill) After 5 washes 120°F AATCC 135	3.0 x 3.0 max	1.8 x 1.8			3.0 x 3.0 max
FLAME RESISTANCE (warp x fill) Afterflame (seconds)- Initial After 25 washes 120°F After 100 washes 120°F Char Length (inches)- Initial After 25 washes 120°F After 100 washes 120°F MELT or DRIP ASTM D6413	2 x 2 max 2 x 2 max 2 x 2 max 4 x 4 max 4 x 4 max 4 x 4 max None	0.0 x 0.0 0.0 x 0.0 0.0 x 0.0 2.4 x 2.3 2.5 x 2.5 2.9 x 2.8 None	2 x 2 max 2 x 2 max 6 x 6 max 6 x 6 max None	2 x 2 max 2 x 2 max 4 x 4 max 4 x 4 max None	2 x 2 max 2 x 2 max 6 x 6 max 6 x 6 max None
THERMAL PROTECTIVE PERFORMANCE (cal/cm²) Initial & After 3 washes 120°F- Contact Initial & After 3 washes 120°F- Spaced	3.0 min 6.0 min	6.7 & 8.2 9.9 & 11.5		3.0 min 6.0 min	
THERMAL SHRINKAGE (% warp x fill) Initial After 3 washes 120°F After 25 washes 120°F	10 x 10 max 10 x 10 max 10 x 10 max	1.0 x 0.8 0.5 x 0.8 0.4 x 0.5	10 x 10 max 10 x 10 max	10 x 10 max 10 x 10 max	
ARC THERMAL PERFORMANCE VALUE (cal/cm²) ATPV After 3 washes 120°F ASTM F1959	Level 1: 4.0 – 7.9	4.1			Level 1: 4.0 – 7.9
MANIKIN FLASH FIRE EXPOSURE % 2 nd Degree Burn ASTM F1930	50 max	46		50 max	
SEAM BREAKING STRENGTH (lbs) Initial After 25 washes 140°F ASTM D1683	55 min Class I 40 min Class II 55 min Class I 40 min Class II		55 min Class I 40 min Class II 55 min Class I 40 min Class II		
SEAM SLIPPAGE (lbs) ASTM D434	40 min				40 min
COLORFASTNESS- LAUNDERING AATCC 61 IIA- 1 cycle	3 min				3 min
COLORFASTNESS- DRY CLEANING AATCC 132- 1 cycle	3 min				3 min
HEAT RESISTANCE (500°F, 5 minutes)	does not melt, drip, separate or ignite	does not melt, drip, separate or ignite	does not melt, drip, separate or ignite	does not melt, drip, separate or ignite	

Prolonged sunlight and UV exposure can be damaging to the aramid fibers. Both natural and dyed aramid fibers will fade or change color with exposure to sunlight or other UV sources. The thermal performance is not affected, but long term or repeated exposures will cause the fiber to gradually weaken. Garments should be stored so that they are protected from sunlight to maximize wear life. No warranties, implied or otherwise, for fabric damage or color change due to UV exposure.

To the best of our knowledge, the information contained herein is accurate. However, assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Users of any substance must satisfy themselves by independent investigation that the material can be used safely. We have described certain hazards, but cannot guarantee that these are the only hazards.

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